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CLAIMS

(57) [Claim(s)]

[Claim 1]In a base fabric for artificial leather which a super-thin staple fiber of 0.5 denier or less confounds in textiles or knitting, and single fiber fineness, In limiting viscosity, 0.4-2, and intensity as textiles which constitute these textiles or knitting 2.5 or more g/d, A base fabric for artificial leather with which polytrimethylene terphthalate textiles whose ductility is 20 to 100%, and whose elastic modulus is 25 - 30 g/d are used, and at least one side of the surface of a base fabric is characterized by comprising a fiber layer with which a super-thin fiber layer became entangled.

[Claim 2]Artificial leather which makes it with the feature to come to carry out impregnating grant of the polymeric elastomer an inside of the base fabric for artificial leather according to claim 1.

[Claim 3]Artificial leather, wherein at least one side of the surface of the artificial leather according to claim 2 comprises a fiber layer with which a super-thin staple fiber became entangled and is moreover napped.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the base fabric for artificial leather, and artificial leather. It excels in soft aesthetic property, abrasion resistance, stretchability, and color enhancement in more detail, and it is comfortable to wear and is related with the base fabric for [to make the artificial leather which was especially excellent in the color enhancement of a dark color, and endurance / suitable] artificial leather, and artificial leather using it.

[0002]

[Description of the Prior Art]Generally it is known widely that will carry out impregnating grant of various kinds of polymeric elastomers at the base fabric for artificial leather which made woven knitted goods and a super-thin staple fiber confound, and artificial leather will be obtained conventionally. For example, the nap-raising artificial leather of the suede tone thru/or the nubuck tone in which surface super-thin textiles became fluffy is widely used not only for the garments fields, such as a coat, a skirt board, and a jacket, but for the non-garments fields, such as shoes, a bag, furniture, and a car sheet. These nap-raising artificial leather is made indispensable [that a single yarn denier uses super-thin textiles of 0.5 denier or less] in order to acquire the high grade feeling approximated to the natural leather of the surface, and the writing effect. And as for the raw material of the super-thin textiles, polyamide, such as polyester and nylon 6 in which many are represented by polyethylene terephthalate, and Nylon 66, and polyacrylic nitril are used suitably. Obtaining artificial leather of a grain tone is also already known for coating the surface, and it is widely applied to a bag, shoes, etc. at the same time it impregnates with various kinds of polymeric elastomers the base fabric for artificial leather which made woven knitted goods and a super-thin staple fiber confound.

[0003]It turns out that the character of the woven knitted goods used for the inside as a base fabric for artificial leather is large in the various characteristics of artificial leather, and these artificial leather has influenced. As woven knitted goods currently conventionally used for the base fabric for artificial leather of elegance, a polyethylene terephthalate fiber, nylon 6, the Nylon 66 textiles, etc. are used so that JP,53-122869,A, JP,57-82583,A, and JP,58-12639,A may see. However, each of these textiles proposed until now has a problem.

[0004]When using a polyethylene terephthalate fiber, aesthetic property becomes hard, and also since there is no stretchability, what is excellent in endurance is stretched, and has a problem which is a little inferior in a feeling of wear -- there is admiration. When using polyamide fibers, such as nylon 6 and Nylon 66, although soft aesthetic property is attained, in order that glass transition point temperature may fall to near the room temperature, it is in the tendency for shape collapse to happen easily, in the state where there is humidity which is seen under a service condition. Since lightfastness was low, when it was used over a long period of time, there was a problem from which a colour fade-out arises inevitably. It had a problem inferior to dyeing robustness.

[0005]

[Problem(s) to be Solved by the Invention]. The soft aesthetic property whose natural leather appearance was [the technical problem of this invention] flexible and which was excellent in

draped property is revealed. The suitable base fabric for artificial leather and artificial leather to obtain the new artificial leather which exceeds greatly publicly known artificial leather of mold collapse not taking place to friction wear strongly and excelling in fashionability since it excels in the color enhancement which is excellent in feeling of wearing since it excels in stretchability are made into offer *****.

[0006]As a result of repeating examination wholeheartedly that the above-mentioned technical problem should be solved, by applying the woven knitted goods which consist of specific polyester polymer to artificial leather, with conventional artificial leather, this invention persons found out that the characteristic which is not obtained was revealed, and reached this invention. Namely, in the base fabric for artificial leather with which a super-thin staple fiber of 0.5 denier or less confounds this invention in textiles or knitting, and single fiber fineness, In limiting viscosity, 0.4-2, and intensity as textiles which constitute these textiles or knitting 2.5 or more g/d, the base fabric for artificial leather with which the polytrimethylene terphthalate textiles whose ductility is 20 to 100%, and whose elastic modulus is 25 - 30 g/d are used, and at least one side of the surface of a base fabric is characterized by comprising a fiber layer with which the super-thin fiber layer became entangled — it comes out.

[0007]The woven knitted goods used for this invention need to use polytrimethylene terphthalate textiles. By using this polymer fiber, artificial leather excellent in soft aesthetic property, abrasion resistance, stretchability, and color enhancement can be obtained. Polytrimethylene terphthalate textiles can be provided with physical properties required for the base fabric for artificial leather of this invention by selecting relevant spinning conditions. As such physical properties, it becomes the feature first that an elastic modulus is low in the first place. Even if it has suitable dynamics intensity, that an elastic modulus is low can give soft aesthetic property, when artificial leather is used.

[0008]Next, it is being able to give abrasion resistance and stretchability. Since stress can be well absorbed like a spring since it is having the greatly bent flat-surface zigzag structure, and are and it contracts easy to expand, the crystal structure of polytrimethylene terphthalate can give abrasion resistance and stretchability, when it is made into artificial leather. Next, it is being able to give good color enhancement. For example compared with a polyethylene terephthalate fiber, since polytrimethylene terphthalate textiles have the loose amorphism portion, they have the feature that the refractive index of textiles is small. Therefore, since the rate of the light which reflection of the light in a fiber surface decreases and is absorbed by the color increases, color enhancement has the feature of becoming good. Therefore, when dark colors, such as black and brown, are required especially, vivid and deep coloring can be attained.

[0009]Here, polytrimethylene terphthalate is polymer which carries out copolymerization of the terephthalic acid to 1,3-propanediol, and is obtained. Copolymerization of the ester bond nature comonomer may be carried out to polytrimethylene terphthalate 5 or less % of the weight in the range which does not spoil the effect of this invention. As such comonomer, isophthalic acid, phthalic acid, naphthalene-2,6-dicarboxylic acid, 5-sodium sulfoisophtharate, 5-potassium sulfoisophtharate, 5-lithium sulfoisophtharate, 5-sulfoisophtharate tetrabutylphosphonium salt, 5-sulfoisophtharate tributylbenzyl phosphonium salt, oxalic acid, Succinic acid, adipic acid, sebacic acid, dodecanoic acid, dodecanedioic acid, cyclohexanedicarboxylic acid, One sort or the combination beyond it, such as ethylene glycol, butanediol, hexandiol, cyclohexanediol, cyclohexane dimethanol, a trimethylene-glycol dimer, and polyalkylene glycol of the average molecular weights 400-20000, are illustrated.

[0010]Various kinds of additive agents which do not carry out copolymerization, for example, a flattening, a thermostabilizer, a defoaming agent, a ready coloring material, fire retardant, an antioxidant, an ultraviolet ray absorbent, an infrared absorption agent, a nucleus agent, a fluorescent brightener, etc. may be copolymerized or mixed if needed. the limiting viscosity $[\eta]$ of polytrimethylene terphthalate textiles used for this invention — 0.4-2 — desirable — 0.5-1.5 — it is 0.6-1.2 still more preferably. In this range, textiles excellent in intensity and spinning nature can be obtained. When limiting viscosity is less than 0.4, since the melt viscosity of polymer is too low, the intensity of the textiles obtained by spinning becoming unstable will also be low, and the strength of the artificial leather obtained will become low. Conversely, when

limiting viscosity exceeds 2.0, since melt viscosity is too high, melt fracture and poor spinning arise at the time of spinning.

[0011]As for 30-200 deniers, as single fiber fineness, in order to reveal moderate soft nature, 0.05-5 deniers is preferred [the polytrimethylene terphthalate textiles used for this invention are multifilament, and] as the total fineness. Restrictions, such as a round shape, a triangular form, flatness, and a star shape, may not have the sectional shape of a single fiber, and it may be inner substance textiles, or may be a hollow fiber.

[0012]The twist may be given to the polytrimethylene terphthalate textiles which constitute the woven knitted goods of the base fabric for artificial leather. Preferably, 100 to 3000 T/m, a number of twist is 100 - 1500 T/m still more preferably, and can give high stretchability to artificial leather. The polytrimethylene terphthalate textiles used for this invention require that physical properties should show the following values, and artificial leather excellent in soft aesthetic property, abrasion resistance, stretchability, and color enhancement is obtained. Intensity is 2.5 or more g/d. In less than 2.5 g/d, intensity is not preferred in order for the intensity of artificial leather to fall. Ductility is 20 to 100%. If less than 20% of thing does not exist since the ductility of a polymer crystal is 20%, but 100% is exceeded, knitting and weaving are carried out, and a possibility that a muscle goes into a hard textile, or excessive contraction will take place and a hand will become hard becomes high, and it is not preferred. An elastic modulus is 25 - 30 g/d, and it becomes possible to give soft aesthetic property and stretchability to artificial leather in this range. A 20% extension recovery factor is 70 to 95%, and it becomes possible to give good stretchability in this range.

[0013]The polytrimethylene terphthalate textiles used for this invention can be made into woven knitted goods using a publicly known method, and can be used as the base fabric for artificial leather. Textiles may be used for both warp and the woof, or may use polytrimethylene terphthalate textiles for warp or the woof. When using it for both warp and the woof, it becomes the thing excellent in soft aesthetic property, abrasion resistance, stretchability, and color enhancement, and is especially desirable. When it is used only for warp or the woof, it becomes what passes and differs in the ease of bending of a direction and a latitudinal direction, and becomes artificial leather with the interesting feature. If the organizations of textiles are cloth construction, such as a plain weave, twill, satin, and *****, they can apply each to this invention intrinsically, but a cost aspect and a process side to their plain weave is the most preferred for the purpose of this invention. the fabric density of a plain weave --- the circumstances same number and a different number --- any may be sufficient. Although it naturally changes with fineness of warp and the woof, fabric density is preferred at a point provided with dimensional stability and manufacture stability, maintaining aesthetic property with an inch soft in 40-70 [/], when using polytrimethylene terphthalate textiles of 100d/48f-30d/6f, for example.

[0014]If polytrimethylene terphthalate textiles are used 100%, in knitting, it becomes a hand nearest to natural leather, and it is especially preferred. As an organization of knitting, restriction in particular does not have tricot, Russell, a round braid, etc., and they can use arbitrary organizations according to the purpose. The base fabric for artificial leather of this invention is characteristic in polytrimethylene terphthalate textiles being used as textiles from which a super-thin staple fiber of 0.5 denier or less comes to confound, and textiles or knitting, and single fiber fineness constitute these textiles or knitting. As a gestalt of confounding, although textiles or knitting, and a super-thin staple fiber may be entangled with three dimensions mutually, the fiber bundles for which these staple fibers gathered could become entangled mutually in three dimensions, and they may be [this staple fiber and its fiber bundle may be intermingled, and] entangled.

[0015]As polymer which constitutes a super-thin staple fiber, there is no restriction in particular and Polyethylene terephthalate, Synthetic fibers, such as polytrimethylene terphthalate, polybutylene terephthalate, nylon 6, Nylon 66, and polyacrylonitrile, rayon, cuprammonium rayon rayon, etc. are applied preferably. The single fiber fineness of a super-thin staple fiber needs to be 0.5 denier or less. If single fiber fineness exceeds 0.5 denier, the surface grace and feeling of a feel of artificial leather become crude, the good writing effect not only not being acquired,

either but a hand becomes hard, a surface raising fiber becomes easy to produce a pilling also undesirably and in abrasion resistance, and it is not desirable. Although single fiber fineness becomes so good [the hand of nap-raising artificial leather, a surface touch, the writing effect, etc.] that it is small, if it becomes not much thin, the single yarn strength of a super-thin staple fiber will become extremely weak, and it produces the fault in which the surface wears out easily by wear, and is not preferred. The desirable single fiber fineness of a super-thin staple fiber is 0.001-0.2 denier, and is 0.05-0.15 denier most preferably 0.01-0.2 denier still more preferably. [0016]The base fabric for artificial leather of this invention can give omission prevention of a super-thin staple fiber, dimensional stability, and moderate rigidity to an inside by carrying out impregnating grant of the polymeric elastomer, and can use them as artificial leather. After textiles or knitting, and single fiber fineness impregnate with a polymeric elastomer the structure which a super-thin staple fiber of 0.5 denier or less confounds, artificial leather of this invention can nap a surface layer, and can obtain nap-raising artificial leather of a suede tone. That is, the artificial leather obtained is nap-raising artificial leather, wherein it has the fiber layer constituted by a super-thin staple fiber becoming entangled actively on at least one surface and this surface is napped. Therefore, in this case, a polymeric elastomer will not recognize real existence at the outermost superficial layer, but it will exist only in an inside.

[0017]Artificial leather of the grain tone surface is obtained by coating the surface with a polymeric elastomer. As a polymeric elastomer, polymeric elastomers, such as synthetic rubbers, such as a polyurethane elastic body, an acrylic nitril butadiene copolymer, a styrene butadiene copolymer, polybutadiene, and a neoprene, and polyacrylic ester, can be used. The desirable impregnating grant rate of the polymeric elastomer to artificial leather is 3 to 20 % of the weight, and is 5 to 15 % of the weight especially preferably four to 20% of the weight still more preferably.

[0018]In conventional nap-raising artificial leather, a polyurethane elastic body can use it conveniently in the above-mentioned polymeric elastomer for obtaining nap-raising artificial leather with the advanced soft nature never obtained and abrasion resistance. As a polyol ingredient, for example, polyethylene adipate glycol, Polyesterdiol, such as polybutylene horse mackerel peat glycol. A polyethylene glycol (PEG), a polypropylene glycol (PPG), Polyether glycol, such as polytetramethylene glycol (PTMG). Can apply polycarbonatediol (PCG) and as an isocyanate component Aromatic isocyanates (MDI), such as the diphenylmethane 4 and 4'-diisocyanate, Alicycle fellows isocyanates, such as the dicyclohexyl methane- 4 and 4'-diisocyanate (H12-MDI), Aliphatic series HISO cerates, such as a hexamethylene isocyanate (HMDI), etc. are used, Alcohol of diamine, such as glycols, such as ethylene glycol, ethylenediamine, 4, and 4'-diaminodiphenylmethane, and also three organic functions, amine, etc. can be suitably chosen as a chain extension agent.

[0019]The moisture powder type polyurethane elastic body obtained from an above-mentioned polyol ingredient, diisocyanate component, and chain extension agent by a compulsive emulsion polymerization method has a strong retention span of textiles. When impregnating grant is carried out in the organization gap of the base fabric for artificial leather with which woven knitted goods are embedded by one in the internal layer region or the back layer region, It becomes possible to hold down the impregnating grant rate of this moisture powder type polyurethane to 3 to 20% of the weight of the range, and the nap-raising artificial leather which was excellent in flexible aesthetic property and dimensional stability in if it has advanced abrasion resistance can be obtained. In this case, the desirable impregnating grant rate to artificial leather of a moisture powder type polyurethane elastic body is 5 to 12 % of the weight still more preferably four to 15% of the weight.

[0020]As a moisture powder type poly RETAN elastic body, more preferably, the polyether system obtained from polyether glycol, such as PPG and PTMG, HMDI, H12-MDI, etc. —less— yellowing — a polyurethane elastic body. or a polycarbonate system —less— yellowing — a polyurethane elastic body can use for this invention conveniently from the performance of the heat resistance, hot water resistance, and lightfastness. It is also preferred to use together the antioxidant as a heat-resistant improver, light stabilizer, etc. to said moisture powder type polyurethane elastic body. These additive agents can also be added at both processes, even if it

adds at the time of the polymerization of drainage system polyurethane and adds in the state of the emulsion after the completion of a polymerization. Although there are generally a hindered amine system, a hindered phenol system, and a hydrazine system as an antioxidant, the effect excellent in especially the thing of the amount grade of polymers of a hindered amine system is demonstrated.

[0021]The manufacturing method of artificial leather of this invention is explained taking the case of nap-raising artificial leather. Single fiber fineness makes them a super-thin fiber web with wet process, after cutting super-thin textiles of 0.5 denier or less into a super-thin staple fiber of 20 mm or less, the textiles or knitting which consists of polytrimethylene terphthalate textiles is inserted between these two super-thin fiber webs, confounding unification is carried out by needle punch or a high-pressure-water style, and the base fabric for artificial leather of this invention is obtained — things can be carried out. After a sandpaper etc. perform buffing processing for the surface of this base fabric for artificial leather and making the surface nap, it is impregnated and wet coagulation of the solution type polyurethane elastic body which carried out impregnating desiccation of the emulsion of a moisture powder type Pori Utan elastic body, or dissolved in solvents, such as DMF, is carried out. Artificial leather of this invention can be obtained by carrying out post processing, such as dyeing processing and an antielectric water-repellent finish, to the last.

[0022]Or when using for a super-thin staple fiber polymer in which melt spinning is possible, by the melt blowing method. The super-thin fiber web whose degree of average textiles for which it asked by calculation is 0.001–0.05 denier is obtained from even ***** and fiber density. Similarly the textiles or knitting which consists of this super-thin fiber web and polytrimethylene terphthalate textiles The needle punch method, The base fabric for artificial leather of this invention can be obtained by the thing to depend on the fluid confounding method by a high-pressure-water style and which is made to become entangled in three dimensions, and artificial leather can be succeedingly obtained also by the method of the impregnation treatment of the same polymeric elastomer as the above-mentioned.

[0023]The Plock polyether polyethylene terephthalate polymer to which super-thin textiles carried out copolymerization of the PEG 10% of the weight or more, Or it can obtain by using polystyrene etc. as a sea component, carrying out melt spinning of the sea island textiles which use as an island component polymer in which melt spinning is possible, and carrying out dissolution removal of block copolymerization ester or the polystyrene by a heat alkaline aqueous solution or trichloro ECHIREREN 2 to 5%. In this way, the obtained super-thin textiles can also obtain the base fabric for artificial leather of this invention by the same method as the super-thin textiles directly obtained by the spinning method after cutting into a super-thin staple fiber of 20 mm or less as mentioned above. This bicomponent fiber is cut into a 20–80-mm super-thin staple fiber before carrying out super-thin-ized processing, A bicomponent fiber web is formed with dry methods, such as the publicly known card method and the air lei method, .

[whether the textiles or knitting which consists of polytrimethylene terphthalate textiles is laminated in a back layer part, and] Or it can confound in three dimensions with the needle punch method and a pillar-shaped style confounding method, without laminating, the base fabric for artificial leather of this invention can be obtained as well as the above-mentioned, and artificial leather can be obtained by the impregnation treatment of a polymeric elastomer.

[0024]As an option, super-thin textiles make the 1st ingredient polymer in which melt spinning is possible, The bicomponent fiber arranged to the petal type (for example, five to 10 division) as the 2nd ingredient of polymer in which another melt spinning is possible is obtained, Cut this bicomponent fiber into a length of 10 mm, insert the textiles or knitting which consists of polytrimethylene terphthalate textiles between these two sheets after forming a paper-milling sheet with wet process, and by pillar-shaped style confounding processing etc. super-thin textiles **** which divides a bicomponent fiber and consists of polymer whose single fiber fineness is two kinds of 0.5 denier or less — things are made, by confounding in three dimensions simultaneously as well as the above-mentioned, the base fabric for artificial leather of this invention can be obtained, and artificial leather can be obtained.

[0025]

[0026]

[Embodiment of the Invention] The following example explains this invention. The measuring method of each measured value used during explanation of an example is as follows.

(1) Limiting viscosity limiting viscosity $[\eta]$ is a value calculated based on the following definitional equation.

[0027]

[Equation 1]

$$[\eta] = \lim_{C \rightarrow 0} (\eta_r - 1) / C$$

$$C \rightarrow 0$$

[0028] η_r of a definitional equation is the value which broke the viscosity in 35 ** of the diluted solution of the polyester polymer which dissolved by the o-chlorophenol of not less than 98% of purity by viscosity of the above-mentioned solvent itself measured at the same temperature, and is defined as relative viscosity. C is a solute weight value by the gram unit in 100 ml of the above-mentioned solutions.

(2) Strong ductility and the strong ductility of 20% extension recovery-factor textiles were measured according to JIS-L-1013.

(3) The softness of the degree artificial leather of adaptability was measured in accordance with the JIS-L1079-A method (the 45-degree cantilever method) as a degree of adaptability.

(4) The abrasion resistance of wear-resistant artificial leather was measured according to JIS-L-1096 (the Martin Dale method).

(5) Stretchability profitable **** artificial leather was pulled and the extension recovery factor of artificial leather evaluated by the pace of expansion used as not less than 90%.

[0029]

the both directions of the circumstances — more than 10% of pace-of-expansion: — the direction of O ** — not less than 10% of pace of expansion : Pace of expansion not more than O it : x (6) color enhancement (examination of whether to have been dyed the dark color)

180 ** of obtained artificial leather was dyed under pH 5 and dispersing agent existence using the disperse dye using KAYARON polyester blue 3RSF(made by Nippon Kayaku Co., Ltd.)10%owf for 130 ** and 60 minutes, after carrying out a dry heat set for 30 seconds. After dyeing, it rinsed and the final set was performed in 180 ** and 30 seconds.

[0030] In this way, the three-stage (O, O, **) estimated the color enhancement of the obtained dyeing thing.

[0031]

[Work example 1] the law from 1,3-propanediol and dimethyl phthalate — it polymerized by the method and $[\eta]$ obtained polytrimethylene terphthalate polymer of 0.7. It extruded by a part for 11.7g of discharge quantity/using the spinning port which has this polytrimethylene terphthalate polymer at the spinning temperature of 280 **, and has a hole of 350 holes by 0.1 mm in the aperture phi. It cooled having turned cooling wind blows to the spinning port side, and spraying them directly under a spinning port, and the superfine multifilament undrawn yarn was obtained by a part for coiling speed/of 1200 m. Then, the obtained undrawn yarn was extended by one 2.5 times the draw magnification of this, and the full oriented yarn of 100d/48f was obtained. As for the intensity of the obtained textiles, 4.2 g/d and ductility were 30% and 25 g/d and the 20% extension recovery factor of the elastic modulus were [priming contraction] 13% 88%. Using what carried out 2500T [/m] throwing of these textiles, density created in 55 [/inch] and, in the circumstances, eyes created the plain weave fabric of 80 g/m².

[0032] After cutting the super-thin textiles of the polyethylene terephthalate fiber of 35d/350f in length of 5 mm, it was made to distribute underwater and the slurry for paper milling the object for surfaces and for linings was made. It was considered as surface 100g/m eyes² and lining 50g/m eyes², and the textiles of the above-mentioned polytrimethylene terphthalate textiles were inserted, it was considered as the laminated-structure fibrous sheet, and, subsequently the three-dimensional confounding nonwoven fabric was obtained by injection of the high-speed

stream. A high-speed stream by a rectilinear-propagation style injection nozzle with the aperture ϕ of 0.15 mm From a surface to $40\text{kg}/[\text{cm}]^2$. The wire gauze of 60 meshes was inserted between the empress and sheet which were processed by the pressure of $30\text{kg}/[\text{cm}]^2$ from the lining, and the nozzle, it processed by water pressure $25\text{kg}/\text{cm}^2$, and desiccation, eyes $200\text{g}/\text{m}^2$, and a 0.8-mm-thick nonwoven sheet like object were continuously manufactured by the pin tenter.

[0033] After carrying out buffing of the surface for this sheet like object with the emery paper of #400, sodium sulfate was added as a thermal coagulant by the emulsion 7% concentration of Japanese flower chemicals company make and EBAFA Norian AP-12 (compulsive emulsification type non-ion system polyether —less— yellowing — the polyurethane elastic body of a type), and impregnating liquid was prepared. It extracted with mangle that a rate of impregnation would be 160%, and deposit efficiency was doubled. Subsequently, stoving was continuously carried out in 130 °C and 3 minutes with the pin tenter dryer. This artificial leather original fabric was dyed using the jet dyeing machine. The obtained nap-raising artificial leather had the advanced abrasion resistance which has the surface grace of the soft feeling of a feel with flexible aesthetic property and a high grade feeling, and the outstanding writing effect, and is not in the former, stretchability, and color enhancement. The performance data of this artificial leather was shown in Table 1.

[0034]

[Work example 2] Except that density replaced textiles with warp-knitted fabrics of 28 gauges / inch, it repeated like Example 1. Although pliability was a little inferior to artificial leather of Example 1, it had advanced abrasion resistance, stretchability, and color enhancement.

[0035]

[Work example 3] As a super-thin staple fiber, it repeated like Example 1 except having used polytrimethylene terphthalate textiles. The obtained artificial leather was softer than Example 1, and showed high stretchability.

[0036]

[Work example 4] Only warp was repeated like Example 1 except having used the polyethylene terephthalate fiber of 100d/48f of intensity 5.2 g/d, 26% of ductility, and elastic-modulus 110 g/d. That to which softness is inferior to artificial leather of Example 1 in the obtained artificial leather, and moderate rigidity are excellent.

Sufficient stretchability for a latitudinal direction was shown.

[0037]

[Comparative example 1] Instead of the textiles of polytrimethylene terphthalate textiles, it repeated like Example 1 except having used the textiles of the polyethylene terephthalate fiber. The obtained artificial leather was hard compared with artificial leather of Example 1, and stretchability was hardly shown. Since color enhancement was lower than polytrimethylene terphthalate textiles, color enhancement was falling [the polyethylene terephthalate fiber].

[0038]

[Table 1]

	織織物に用いる繊維	織織物の種類	織織物の密度	柔軟度	ストレッチ性	耐磨耗性	発色性
			本/吋又はゲージ	mm		回	
実施例 1	ポリトリメチレンテフタレート	織物	経緯：5.5	3.3	◎	4万	◎
実施例 2	ポリトリメチレンテフタレート	織物	2.8ゲージ	3.8	◎	3.5万	◎
実施例 3	ポリトリメチレンテフタレート	織物	経緯：5.5	2.5	◎	3.8万	◎
比較例 1	ポリエチレンテフタレート	織物	経緯：5.5	4.2	×	4万	△

[0039]

[Effect of the Invention] Artificial leather of this invention with a low elastic modulus and since the base fabric for artificial leather which uses the textiles or knitting which comprised

polytrimethylene terphthalate textiles which were excellent in stretchability and were moreover excellent in the dye affinity is used, It has the soft aesthetic property which is not looked at by conventional artificial leather, abrasion resistance, stretchability, and color enhancement.

[Translation done.]